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# HAND DELIVERY TO GROUP ART UNIT 1656

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. 00-715-B)

In re Application of: )  
Chad A. Mirkin, et al. )  
Serial No.: 10/716,829 ) Examiner: TBA  
Filed: November 18, 2003 ) Art Unit: 1656  
For: NANOPARTICLES HAVING ) Confirmation No. TBA  
OLIGONUCLEOTIDES ATTACHED )  
THERETO AND USES THEREFOR )

## TRANSMITTAL LETTER

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

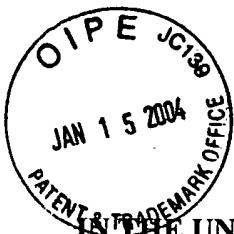
Sir:

- In regard to the above identified application.
1. We are transmitting herewith the attached:
    - a) Information Disclosure Statement copies of 5 references
    - b) Supplemental Information Disclosure Statement with copies of 9 references
    - c) Second Supplemental Information Disclosure Statement with copies of 16 references
    - d) Third Supplemental Information Disclosure Statement with copies of 3 references
    - e) Fourth Supplemental Information Disclosure Statement with copies of 60 references
    - f) Fifth Supplemental Information Disclosure Statement with copies of 4 references
    - g) Sixth Supplemental Information Disclosure Statement with copies of 29 references
    - h) Seventh Supplemental Information Disclosure Statement with copies of 11 references
    - i) Return Receipt Postcard
  2. With respect to fees:
    - a) No check is attached.
    - b) **General Authorization:** Please charge any underpayment or credit any overpayment our Deposit Account, No. 13-2490.

Date: 1/14/04

Respectfully submitted,

  
Emily Miao  
Registration No. 35,285



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. 00-715-B)

In the Application of: )  
Chad A. Mirkin, et al. )  
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Examiner: TBA  
Group Art Unit: 1656  
Confirmation No. TBA

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

In order to comply with discretionary regulations 37 CFR §§1.97 and 1.98, attached hereto is Form PTO-1449, copies<sup>1</sup> of the documents listed thereon. These documents contain information which the Examiner may consider to be important in deciding whether to allow the present application to issue as a patent.

1. Brada, et al., "Golden Blot" – Detection of Polyclonal and Monoclonal Antibodies Bound to Antigens on Nitrocellulose by Protein A-Gold Complexes, *Analytical Biochemistry*, Vol. 42, pp. 79-83 (1984) U.S.

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<sup>1</sup>To the extent that a document is listed and no copy of same is attached, then such document is not at the present time available to the undersigned or is available in the file of a parent application. If a listed document is not in the English language and an English translation is readily available, such translation is also attached; if translation is not attached it is not readily available to the undersigned. If a foreign language patent document is cited, and an English language equivalent is known to the undersigned, then such equivalent patent is also cited on the attached form along with the corresponding foreign language patent and a connecting arrow indicated therebetween; if no such English language equivalent is cited, then none is known to undersigned.

2. Dunn, et al., "A Novel Method to Map Transcripts: Evidence for homology between an Adenovirus mRNA and Discrete Multiple Regions of the Viral Genome, *Cell*, Vol. 12, pp. 23-36, (1997) U.S.
3. Hacker, "High performance Nanogold – Silver in situ hybridisation, *Eur. J. Histochem*, Vol. 42, pp. 111-120 (1998) U.S.
4. Ranki, et al., "Sandwich hybridization as a convenient method for the detection of nucleic acids in crude samples," *Gene*, Vol. 21, pp. 77-85 (1983) U.S.
5. Romano, et al., "An antoglobulin reagent labelled with colloidal gold for use in electron microscopy," *Immunochemistry*, Vol. 11, pp. 521-522 (1974) Great Britain

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search, will review for relevance every document cited on the attached form even if not initialed.

Early and favorable consideration is earnestly solicited.

Respectfully submitted,



---

Emily Miao  
Registration No. 35,285

Dated: Jan. 14, 2004

McDonnell Boehnen Hulbert & Berghoff  
300 South Wacker Drive  
Chicago, Illinois 60606  
Telephone : (312) 913-0001  
Facsimile: (312) 913-0002

FORM PTO-1449  
(Rev. 2-32)U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No.

00-715-B

Serial No.

10/716,829

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)



Applicant:

Chad A. Mirkin, et al.

Filing Date:

November 18, 2003

Group:

1656

## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes	No

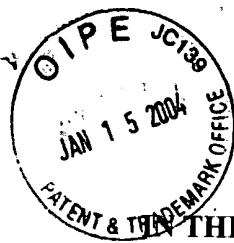
## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

1.	Brada, et al., "Golden Blot" – Detection of Polyclonal and Monoclonal Antibodies Bound to Antigens on Nitrocellulose by Protein A-Gold Complexes, <i>Analytical Biochemistry</i> , Vol. 42, pp. 79-83 (1984) U.S.
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4.	Ranki, et al., "Sandwich hybridization as a convenient method for the detection of nucleic acids in crude samples," <i>Gene</i> , Vol. 21, pp. 77-85 (1983) U.S.
5.	Romano, et al., "An antiglobulin reagent labelled with colloidal gold for use in electron microscopy," <i>Immunochemistry</i> , Vol. 11, pp. 521-522 (1974) Great Britain

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation consider whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
(Case No. 00-715-B)

In the Application of: )  
Chad A. Mirkin, et al. )  
Serial No.: 10/716,829 ) Examiner: TBA  
Filed: November 18, 2003 ) Group Art Unit: 1656  
For: NANOPARTICLES HAVING ) Confirmation No. TBA  
OLIGONUCLEOTIDES ATTACHED )  
THERETO AND USES THEREFOR )

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Sir:

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1. Stimpson, et al., U.S. Patent No. 5,599,668 issued 02/04/97.
2. Weiss, et al., U.S. Patent No. 5,990,479 issued 11/23/99.

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3. Stimpson, et al., "Real-time detection of DNA hybridization and melting on oligonucleotide arrays by using optical wave guides," *Proc. Natl. Acad. Sci.*, Vol. 92, pp. 6379-6383, California Institute of Technology (1995) U.S.
4. Storhoff, et al., "Strategies for Organizing Nanoparticles into Aggregate Structures and Functional Materials," *Journal of Cluster Science*, Vol. 8, No. 2, pp. 179-217, Plenum Publishing Corporation (1997) U.S.
5. Storhoff, et al., "One-Pot Colorimetric Differentiation of Polynucleotides with Single Base Imperfections Using Gold Nanoparticle Probes," *J. Am. Chem. Soc.*, Vol. 120, pp. 1961-1964, American Chemical Society (1998) U.S.
6. Velev, et al., "In Situ Assembly of Colloidal Particles into Miniaturized Biosensors," *Langmuir*, Vol. 15, No. 11, pp. 3693-3698, American Chemical Society (1999) U.S.
7. Zhu, et al., "The First Raman Spectrum of an Organic Monolayer on a High-Temperature Superconductor: Direct Spectroscopic Evidence for a Chemical Interaction between an Amine and Yba<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub>," *J. Am. Chem. Soc.*, Vol. 119, pp. 235-236, American Chemical Society (1997) U.S.
8. Yguerabide, et al., "Light-Scattering Submicroscopic Particles as Highly Fluorescent Analogs and Their Use as Tracer Labels in Clinical and Biological Applications," I. Theory, *Analytical Biochemistry*, Vol. 262, pp. 137-156 (1998) U.S.
9. Yguerabide, et al., "Light-Scattering Submicroscopic Particles as Highly Fluorescent Analogs and Their Use as Tracer Labels in Clinical and Biological Applications," II. Experimental Characterization, *Analytical Biochemistry*, Vol. 262, pp. 157-176 (1998) U.S.

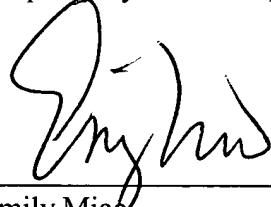
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Early and favorable consideration is earnestly solicited.

Respectfully submitted,



Emily Mia  
Registration No. 35,285

Dated: 1/14/04

McDonnell Boehnen Hulbert & Berghoff  
300 South Wacker Drive  
Chicago, Illinois 60606  
Telephone : (312) 913-0001  
Facsimile: (312) 913-0002

<b>FORM PTO-1449</b> (Rev. 2-32)		<b>U.S. Department of Commerce Patent and Trademark Office</b>	<b>Atty. Docket No.</b>	<b>Serial No.</b>
			00-715-B	10/716,829
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				
(Use several sheets if necessary)				
		<b>Applicant:</b>		
		Chad A. Mirkin, et al.		
		<b>Filing Date:</b>	<b>Group:</b>	
		November 18, 2003	1656	

**U.S. PATENT DOCUMENTS**

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1.	5,599,668	02/04/97	Stimpson, et al.			
	2.	5,990,479	11/23/99	Weiss, et al.			

**FOREIGN PATENT DOCUMENTS**

		Document Number	Date	Country	Class	Subclass	Translation Yes	No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	3.	Stimpson, et al., "Real-time detection of DNA hybridization and melting on oligonucleotide arrays by using optical wave guides," <i>Proc. Natl. Acad. Sci.</i> , Vol. 92, pp. 6379-6383, California Institute of Technology (1995) U.S.
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	6.	Velev, et al., "In Situ Assembly of Colloidal Particles into Miniaturized Biosensors," <i>Langmuir</i> , Vol. 15, No. 11, pp. 3693-3698, American Chemical Society (1999) U.S.
	7.	Zhu, et al., "The First Raman Spectrum of an Organic Monolayer on a High-Temperature Superconductor: Direct Spectroscopic Evidence for a Chemical Interaction between an Amine and Yba <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> ," <i>J. Am. Chem. Soc.</i> , Vol. 119, pp. 235-236, American Chemical Society (1997) U.S.

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

FORM PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 00-715-B	Serial No. 10/716,829
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>			
(Use several sheets if necessary)			
			
<b>Applicant:</b> Chad A. Mirkin, et al.			
<b>Filing Date:</b> November 18, 2003		<b>Group:</b> 1656	

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	Subclass	Translation Yes	Translation No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

8.	Yguerabide, et al., "Light-Scattering Submicroscopic Particles as Highly Fluorescent Analogs and Their Use as Tracer Labels in Clinical and Biological Applications," I. Theory, <i>Analytical Biochemistry</i> , Vol. 262, pp. 137-156 (1998) U.S.
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EXAMINER	DATE CONSIDERED
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PATENT

THE UNITED STATES PATENT AND TRADEMARK OFFICE

(Our Case No. 00-715-B)

In re Application of:	)	
	)	
Chad A. Mirkin, et al.	)	
	)	
Serial No.	10/716,829	)      Examiner: TBA
	)	
Filed:	November 18, 2003	)      Art Unit: 1656
	)	
For:	Nanoparticles Having Oligonucleotides Attached Thereto and Uses Therefor	)      Confirmation No. TBA
	)	

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Sir:

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1. WO 92/04469 published 19 March 1992
2. WO 90/02205 published 8 March 1990

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3. Borman, *Chem. Eng. News*, December 9, 1996, pp. 42-43 (1996)

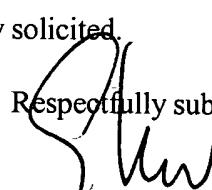
4. Tomlinson et al. *Anal Biochem*, Vol. 171, pp. 217-222 (1998)

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Early and favorable consideration is earnestly solicited.

Respectfully submitted,

  
Emily Miao  
Registration No. 35,285

Dated: January 14, 2004

McDonnell Boehnen Hulbert & Berghoff  
300 South Wacker Drive  
Chicago, Illinois 60606  
Telephone : (312) 913-0001  
Facsimile: (312) 913-0002

Form PTO-1449	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 00-715-B	Serial No. 10/716,829
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		O I P E JC139 JAN 15 2004 PATENT & TRADEMARK OFFICE	
Applicant: MIRKIN et al.			
Filing Date: November 18, 2003		Group: 1656	

## **U.S. PATENT DOCUMENTS**

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date

## **FOREIGN PATENT DOCUMENTS**

		Document Number	Date	Country	Class	Subclass	Translation Yes      No
	1.	WO 92/04469	19 March 1992	PCT			X
	2.	WO 90/02205	8 March 1990	PCT			X

**OTHER DOCUMENTS - Including Author, Title, Date, Pertinent Pages, Etc.**

<b>Examiner</b>	<b>Date Considered</b>
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PATENT

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(Case No. 00-715-B)

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Chad A. Mirkin, et al. )  
Serial No.: 10/716,829 ) Examiner: TBA  
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**SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

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1. Heller, et al., U.S. Patent No. 4,966,143 issued 02/26/91
2. Kausch, et al., U.S. Patent No. 5,508,164 issued 04/16/96
3. Ewart, et al., U.S. Patent No. 5,922,537 issued 07/13/99
4. An, et al., U.S. Patent No. 5,972,615 issued 10/26/99

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5. Blackburn, et al., U.S. Patent No. 6,264,825 issued 07/24/01
6. Yguerabide, et al., U.S. Patent No. 6,14,560 issued 04/10/01
7. International Patent WO 94/29484 published 12/22/94
8. International Patent WO 00/25136 published 05/04/00
9. Mohanty J., et al., "Pulsed laser excitation of phosphate stabilized silver nanoparticles," *Proc. Indian Acad.*, Vol. 112, No. 1, p. 63-72 (2000)
10. Peña-Nicewarner S., et al., "Hybridization and Enzymatic Extension of Au Nanoparticle-Bound Oligonucleotides," *J. Am. Chem. Soc.*, Vol. 124, p. 7314-7323 (2002)
11. Whitesides G.M., et al., "Soft Lithography in Biology and Biochemistry," *Annu. Rev. Biomed. Eng.*, p. 335-373 (2001)

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Respectfully submitted,



Emily Miao  
Registration No. 35,285

Dated: 1/14/04

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300 South Wacker Drive, Suite 3200  
Chicago, Illinois 60606  
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FORM PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 00-715-B	Serial No. 10/716,829
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>			
(Use several sheets if necessary)			
			
<b>Applicant:</b> Chad A. Mirkin, et al.			
<b>Filing Date:</b> November 18, 2003		<b>Group:</b> 1656	

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
1.	4,996,143	02/26/91	Heller, et al.	435	6	04/13/90
2.	5,508,164	04/16/96	Kausch, et al.	435	6	10/29/93
3.	5,922,537	07/13/99	Ewart, et al.	435	6	11/8/96
4.	5,972,615	10/26/99	An, et al.	435	6	01/21/98
5.	6,264,825	07/24/01	Blackburn, et al.	205	777.5	06/23/99
6.	6,214,560	04/10/01	Yguerabide, et al.	435	7.1	04/18/97

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	Subclass	Translation Yes	Translation No
7.	WO 94/29484	12/22/94	PCT				
8.	WO 00/25136	05/04/00	PCT				

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).**

9.	Mohanty J., et al. "Pulsed laser excitation of phosphate stabilized silver nanoparticles," <i>Proc. Indian Acad. Sci.</i> , Vol. 112, No. 1, p. 63-72.
10.	Peña-Nicewarner S., et al., "Hybridization and Enzymatic Extension of Au Nanoparticle-Bound Oligonucleotides," <i>J. Am. Chem. Soc.</i> , Vol. 124, p. 7314-7323 (2002)
11.	Whitesides G.M., et al., "Soft Lithography in Biology and Biochemistry," <i>Annu. Rev. Biomed. Eng.</i> , p. 335-373 (2001)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.